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⌚ Title: **JP2000302522A2: PRODUCTION OF FIBER REINFORCED CEMENT BOARD**

⌚ Country: **JP Japan**

⌚ Kind: **A2 Document Laid open to Public inspection**

⌚ Inventor: **WATANABE KOICHI;
YAMADA HIDEKI;**

⌚ Assignee: **MATSUSHITA ELECTRIC WORKS LTD**
[News, Profiles, Stocks and More about this company](#)

⌚ Published / Filed: **2000-10-31 / 1999-04-21**

⌚ Application
Number: **JP1999000114223**

⌚ IPC Code: **C04B 28/18; B28B 1/52; B28B 11/24; C04B 40/02;**

⌚ ECLA Code: **C04B40/02D;**

⌚ Priority Number: **1999-04-21 JP1999000114223**

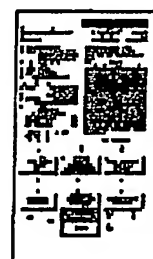
⌚ Abstract: **PROBLEM TO BE SOLVED:** To obtain a board having excellent freeze damage resistance, strength and dimensional stability and having a low specific gravity by specifying the molar ratio of CaO/amorphous silica of a raw material composition containing cement, silica and reinforcing fibers and subjecting the compsn. to a precuring, successively to an autoclave curing.

SOLUTION: The molar ratio of the CaO/amorphous silica of the raw material composition is specified to 3.0 to 12.0. A silica composition is preferably fly ash and the ratio thereof is preferably 10 to 60 pts.wt. (hereafter 'parts') to 100 parts cement. The reinforcing fibers include pulp fibers and the content thereof is preferably 12 to 17 parts per 100 parts cement. The precuring in a saturated steam state preferably involves the execution of secondary curing for 4 to 72 hours at 60 to 100°C after primary curing. The primary curing is preferably executed within 10 hours at a temperature below 60°C. The autoclave curing is preferably executed for 2 to 16 hours at 160 to 180°C. Consequently, the cement board having the specific gravity of about 1.20 to 1.45 is obtained.

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⌚ Family: **None**

⌚ Other Abstract
Info: **CHEMABS 133(24)339036M CHEMABS 133(24)339038M DERABS
C2001-095176 DERABS C2001-095176**



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L4: Entry 1 of 2

File: JPAB

Oct 31, 2000

PUB-NO: JP02000302522A

DOCUMENT-IDENTIFIER: JP 2000302522 A

TITLE: PRODUCTION OF FIBER REINFORCED CEMENT BOARD

PUBN-DATE: October 31, 2000

INVENTOR-INFORMATION:

NAME

COUNTRY

WATANABE, KOICHI

YAMADA, HIDEKI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MATSUSHITA ELECTRIC WORKS LTD

APPL-NO: JP11114223

APPL-DATE: April 21, 1999

INT-CL (IPC): C04 B 28/18; B28 B 1/52; B28 B 11/24; C04 B 40/02

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a board having excellent freeze damage resistance, strength and dimensional stability and having a low specific gravity by specifying the molar ratio of CaO/amorphous silica of a raw material composition containing cement, silica and reinforcing fibers and subjecting the compsn. to a precuring, successively to an autoclave curing.

SOLUTION: The molar ratio of the CaO/amorphous silica of the raw material composition is specified to 3.0 to 12.0. A silica composition is preferably fly ash and the ratio thereof is preferably 10 to 60 pts.wt. (hereafter 'parts') to 100 parts cement. The reinforcing fibers include pulp fibers and the content thereof is preferably 12 to 17 parts per 100 parts cement. The precuring in a saturated steam state preferably involves the execution of secondary curing for 4 to 72 hours at 60 to 100

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L4: Entry 2 of 2

File: DWPI

Oct 31, 2000

DERWENT-ACC-NO: 2001-095176
DERWENT-WEEK: 200111
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TITLE: Fiber reinforced cement plate manufacture for roofing tile, by applying papermaking method to cement composition, raw material containing cement and silica, and reinforcing fiber

PATENT-ASSIGNEE:

ASSIGNEE

CODE

MATSUSHITA ELECTRIC WORKS LTD

MATW

PRIORITY-DATA: 1999JP-0114223 (April 21, 1999)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 2000302522 A</u>	October 31, 2000		005	C04B028/18

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2000302522A	April 21, 1999	1999JP-0114223	

INT-CL (IPC): B28 B 1/52; B28 B 11/24; C04 B 28/18; C04 B 40/02

ABSTRACTED-PUB-NO: JP2000302522A

BASIC-ABSTRACT:

NOVELTY - A fiber-reinforced cement plate is produced by applying the papermaking method to a cement composition, a raw material, containing cement, silica, and a reinforcing fiber. The cement composition has a mol ratio of CaO/amorphous silica of 3.0-12.0. It is then cured in an autoclave.

USE - The method produces the fiber-reinforced cement plate used in a roofing tile, or an external wall.

ADVANTAGE - The fiber-reinforced cement plate has low specific gravity, superior freezing damage resistance, and good strength and dimensional stability. Adjusting autoclave curing time yields the fiber-reinforced cement plate in high productivity in a short period of time, without conventional autoclave curing, 4 days or longer.

CHOSEN-DRAWING: Dwg.0/0

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TITLE-TERMS: REINFORCED CEMENT PLATE MANUFACTURE ROOF TILE APPLY METHOD CEMENT
COMPOSITION RAW MATERIAL CONTAIN CEMENT SILICA REINFORCED

DERWENT-CLASS: F09 L02 P64

CPI-CODES: F05-A07; L02-D04A; L02-D04B; L02-D05;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-028537

Non-CPI Secondary Accession Numbers: N2001-072178